

Abstract of the Disclosure

An apparatus for and method of distillation uses a high temperature thermoelectric device to heat a liquid, such as water to vapor (steam) and cool the vapor to a purified, distilled liquid. Distillation system has no moving parts, thereby increasing reliability while reducing noise and maintenance. Liquid in a container has a heating section on the container extending into it to boil it into a vapor that is fed to a condenser section disposed on the container adjacent to the heating section. A thermoelectric section provided with a Peltier effect device is interposed between the heating section and condenser section. The Peltier effect device has one side in contiguous contact with the condenser to transfer heat from it and another side is in contiguous contact with the heating section to transfer heat to it to boil the liquid into the vapor and feed the vapor through the condenser that condenses it into distilled liquid.